

2005 Maintenance Symposium UID/SIM Meeting Agenda



- 0930 0950 Welcome & UID Overview
 Greg Kilchenstein, OADUSD (MR&MP)
- 0950 1010 "Do Something with the Data"; Making the Transition to UID/SIM
 Chris Sautter, UAH
- 1010 1025 PM UID Implementation Plans for ACAT 1D Programs
 Charlie Lord, OSD UID PMO
- 1025 1040 USAF Pathfinder; A DoD Model for UID Implementation LtCol Kyle Cornell USAF ILID
- 1040 1055 UID Enabling SIM on the Standard Missile Program
 Craig MacDougall, NSWC Corona
- 1055-1100 Wrap-up & Discussion Greg Kilchenstein, OADUSD (MR&MP)





UID Planning & Implementation Status Update

EID (12V)194532636

Orig. Part No. (1P)1234

Serial No. (S)786950

Greg Kilchenstein, OADUSD (MR&MP)

Maintenance Symposium 24 October 2005



Why is DoD doing UID?



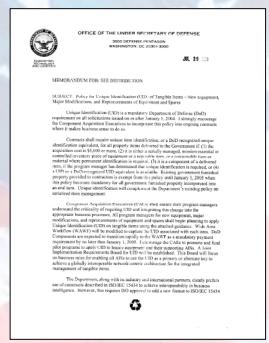
- GAO Reports
 - DoD's Inventory exceeds both current & war reserve requirements
 - ...but key spare parts are too often not available
 - Lack of adequate accountability over material shipments
 - Lack of effective monitoring of defective spare parts
- Continuing problem with Audits of DoD Materiel
 - Require improved tracking and valuation of plant, property and equipment (PP&E) to comply with Federal Accounting Standards Advisory Board (FASAB) standards
 - Goal is having a "clean" audit opinion by FY 2007

Strategic Business Imperative Religionary Process Imperative R

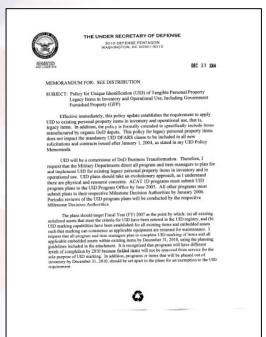
- On 29 July 2003, the Acting Under Secretary of Defense (Acquisition, Technology and Logistics) signed the "Policy for Unique Identification (UID) of Tangible Items New Equipment, Major Modifications, and Reprocurements of Equipment and Spares".
- Strategic outcomes were defined:
 - Enhance **logistics**, **contracting**, **and financial business** transactions supporting U.S. and coalition troops.
 - Enable DoD to consistently capture the **value** of items it buys, **control** these items during their use, **reduce operating costs** and combat counterfeiting of parts.
 - Enable DoD to make appropriate entries into its property accountability, inventory, and financial management information systems toward achieving compliance with the Chief Financial Officers Act.

Two UID "PPE Populations": New Tangible Items & Legacy Items We don't start somewhere, we'll never get

USD(AT&L) Policy Memo USD(AT&L) Policy Memo 29 July, 2003 23 December, 2004



- New tangible items
 - Begin NLT 1 Jan 2004
 - commercial purchases
 - Begin NLT 1 Jan 2005
 - depot manufactured items



- Legacy items in inventory
 - IOC Jul 2005
 - pilot depots
 - Complete NLT Sep 2007
 - all existing serialized items
 - Complete all items NLT Dec 2010



Sustained Materiel Readiness



- What matters to the Warfighter?
 - Materiel that should be available is available
 - At the planned location
 - At the planned time
 - In the planned material condition
 - Materiel that becomes unavailable is repaired or replaced
 - Within the planned sustainment cycle time
 - At the planned sustainment rate
 - At the planned sustainment cost

Strategic Plan Strategic Plan Making

OSD and DoD Components

- Document mission-based materiel readiness requirements
- Resource to efficiently achieve and sustain planned materiel availability in support of required readiness
- Evaluate the performance of the sustainment value chain
- If performance matches plan, seek to reduce the cost of sustainment; if performance is below plan, seek to increase value chain performance

Five Pillars for Sustaining Materiel Readiness

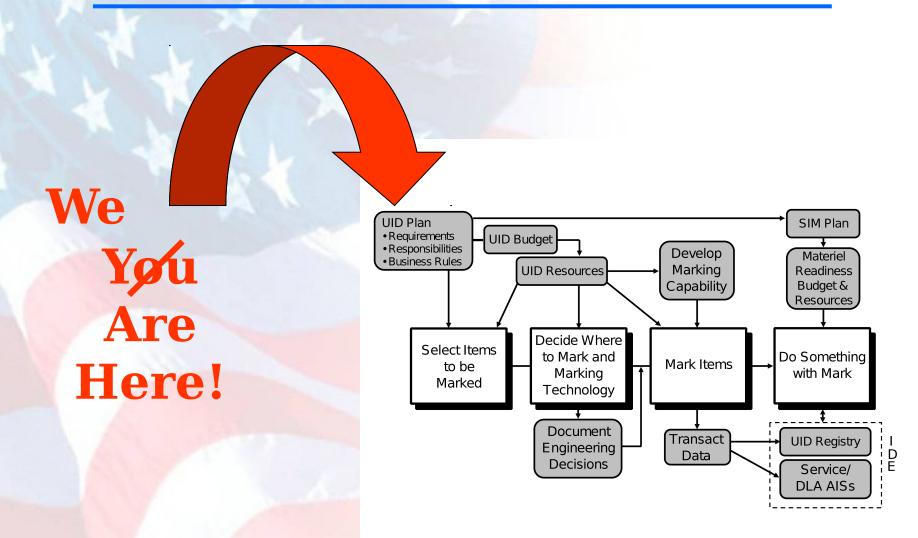
- Policy
- Measuring materiel readiness
- Optimizing materiel reliability
- Optimizing sustainment turnaround time/cycle time
- Balancing resources

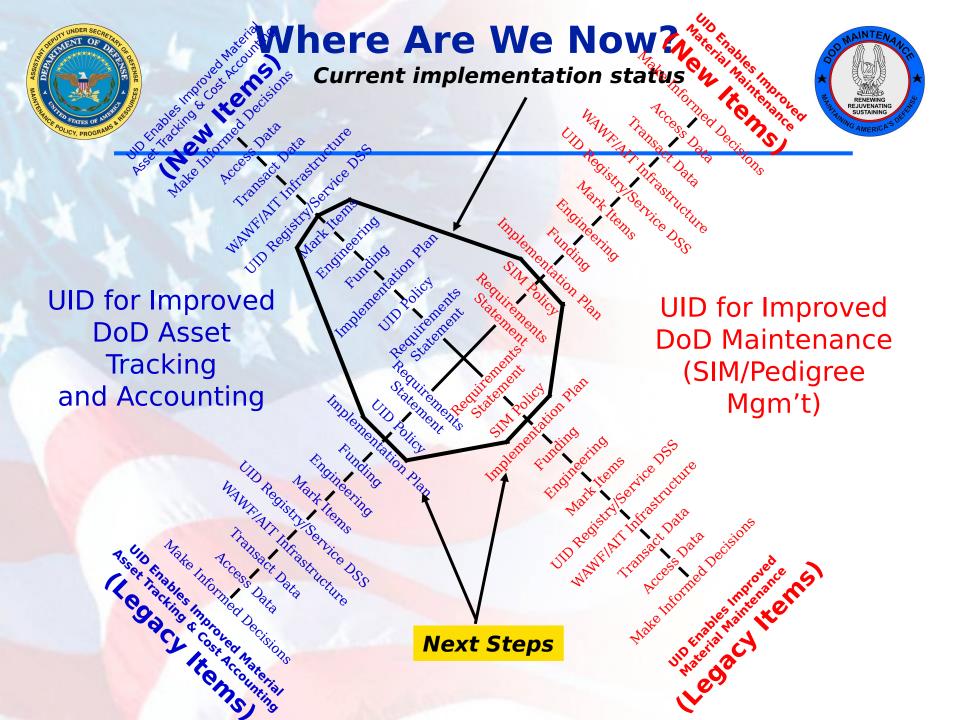




Legacy Parts Marking -Inventing the Future







Setting "Stretch Goals" Setting "Stretch Goals"

USD(AT&L) Policy Memo; Action Date Roll-up

Milestone	Responsibility	Q1 FY05 Q2 FY05 Q3 FY05 FY07 FY08 FY09 FY10	
Quality Assurance Plan for UID	DCMA	J an-05	
OSD UID Budget Guidance to Components	OSD AT&L	Apr-05	
Legacy UID Implementation Plan for DoD Depots	OSD L&MR	May-05	
UID Program Plans (ACAT 1D)	Pgm Mgr	J un-05	
IOC Legacy Marking Capability at Pilot Organic Depots	Military Departments	S J ul-05	
FOC UID CONOPS for DoD Maintenance	OSD L&MR	Dec-05	
UID Program Plans (All Programs)	Pgm Mgr/Item Mgr	J an-06	
A <mark>ll GFE Meets UID Policy Requi</mark> rements	Pgm Mgr/Item Mgr	J an-06	
All Existing Serialized Assets Entered in UID Registry	Pgm Mgr/Item Mgr	Sep-07	
FOC Legacy Marking Capability at All Organic Depots	Military Departments	Sep-07	
Complete UID Marking of All Legacy Items	Pgm Mgr/Item Mgr	Dec-10)

= Program Office Plans = Maintenance Community Plans



UID Way Ahead What we need to succeed



Clear Direction & Guidance / Realistic Goals

- OSD policy memos issued new procurement, legacy items, GFP
- IOC expectations issued May 2005
- Budget instruction issued May 2005
 - Include UID in FY07-12 Budget Submissions (Acquisition Programs)

Effective Communication

- Intra-service IPTs Charters Drafted
- OSD Chaired UID for Maintenance IPT
- DAU and OSD PMO Training
- OSD UID workshops / off-sites
- UID program office website / MR & MP website



UID Way Ahead What we need to succeed



Strategic & Tactical Plans

- PMs submitted UID implementation plans for ACAT 1D programs July 2005
- Service Departments submitted over-arching POA&M for Maintenance July 2005
- OSD issued DoD UID implementation plan for DoD Maintenance Depots May 2005
- UID implementation plans for non ACAT 1D programs due Jan 2006

Universally Recognized Marking & Data Standards

- Marking
 - MIL-STD-130 Rev M in draft
 - ISO 15434 (2D) Data Matrix
- NASA 6002 Direct Part Mark standards
- Industry / Government / Academia collaborative effort (JMQWG)
- Data constructs per ISO 10303 and AP239 Universal Formats



UID Way Ahead What we need to succeed

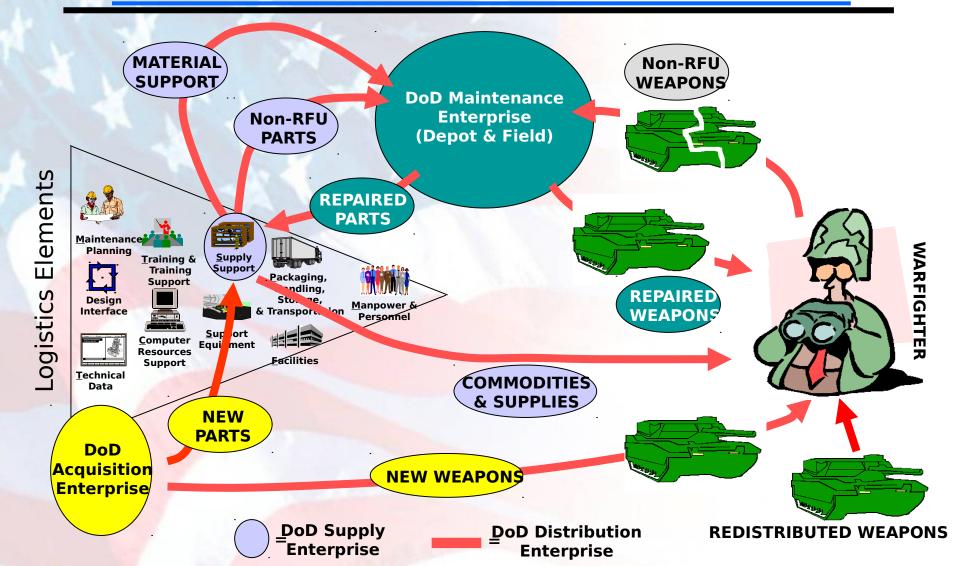


- **Execute Focused Pilot Projects to Develop / Demonstrate UID Implementation Strategy and Share Lessons Learned**
 - ➢ OSD Funded \$3.3M for Pilot Projects in 2005_
 - Navy Cross Program Study Depot as SPI
 - Direct Part Mark on small arms; M9 and M240
 - Explore "turn key" PBL for Parts Marking and Data Capture
 - Direct Part Mark Guide collaborative effort via JMQWG
 - Electronic Logistics Information Trading Exchange (ELITE)
 - APU PBL Integrating UID into existing PBL
 - USMC 7.5 Ton Crane; UID on Legacy Ground Vehicle
 - Standard Missile; Serialized item management using UID & integrated MISs at NSWC Corona
 - USAF UID/SNT Information System Integration



What's In It for Me? (Something for Everyone)









Questions?



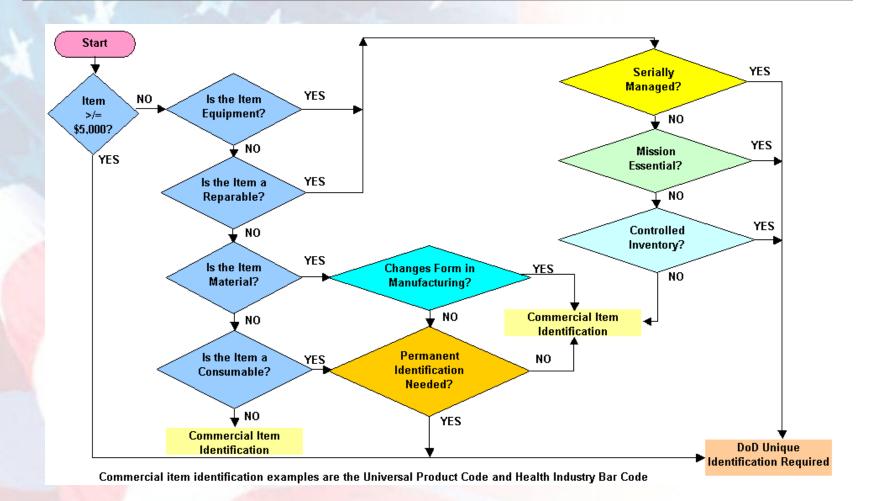


Back-up Slides



What Materiel is Being Uniquely Identified?



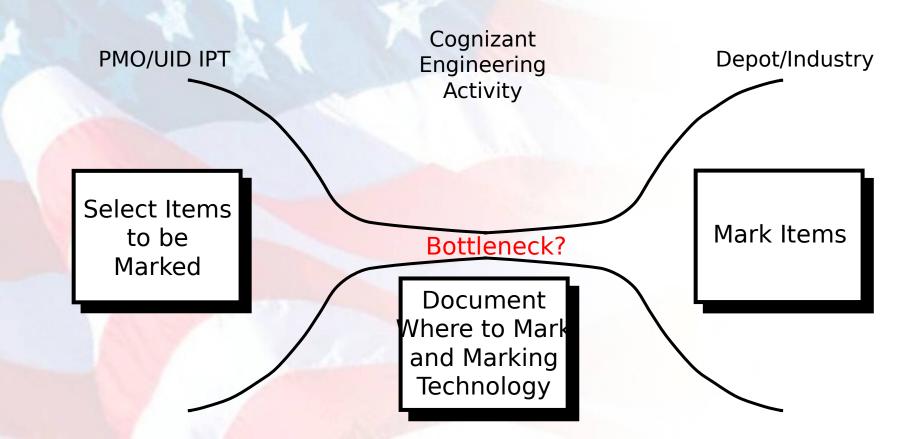




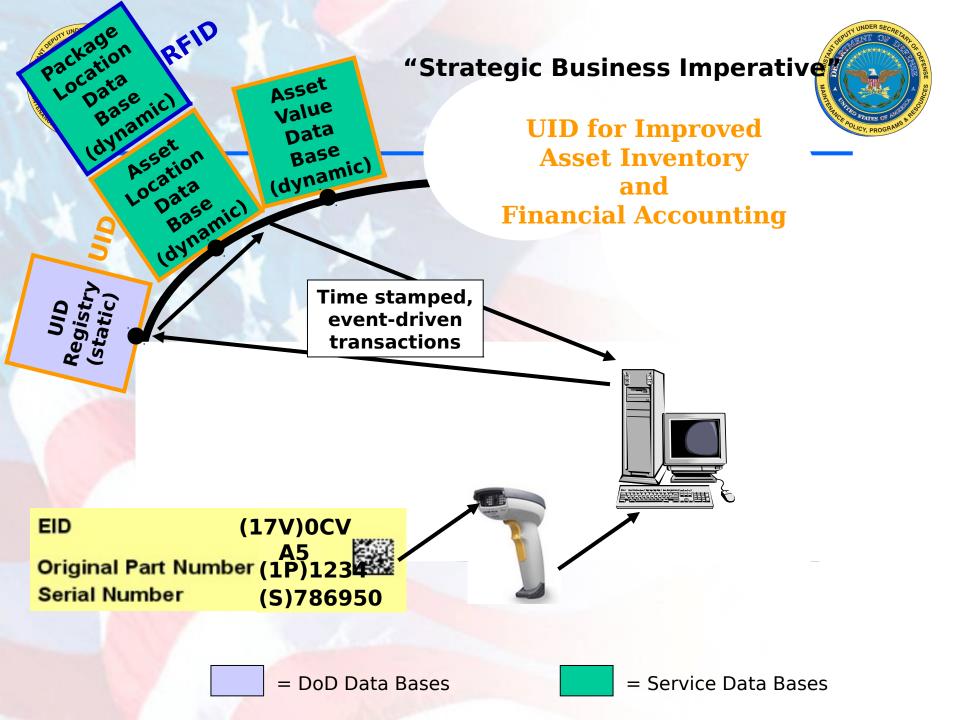
Legacy Marking Engineering Challenge



• Legacy UID DPM engineering support authority may be delegated by the Technical Authority of record to a qualified alternate if the primary TA is unable to provide the support required (e.g., Engineering Field Activity funds OEM to support depot).



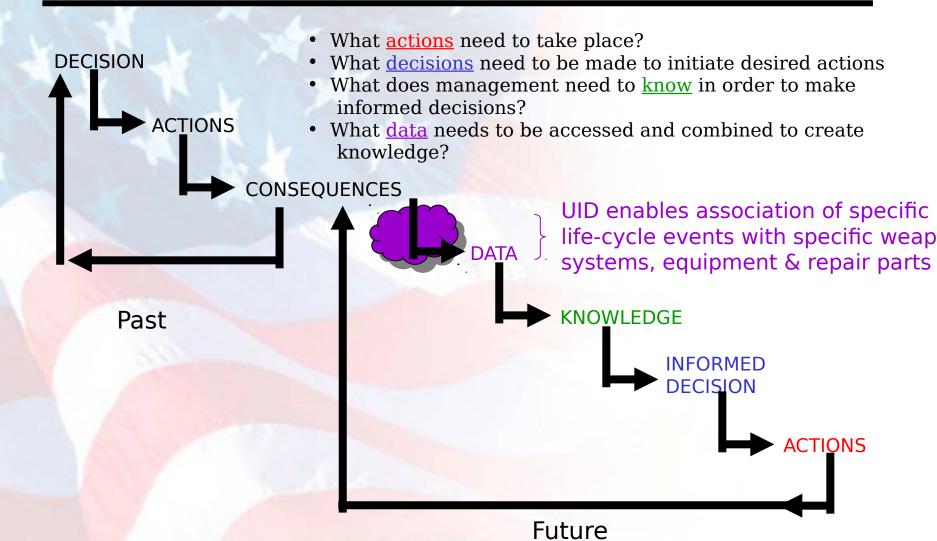
Sustained Materiel Readiness is Primarily a Function of ardware Reliability & Repair Cycle Time **DRMO** Ship**←** RFI **Planned Sustainment Cycle Tir Depot ____ Trouble-**Vs. Repair Induct Actual Sustainment Cycle Tim Test **Depot** Package/Preserve Wholesale **Purchase** Supply Ship Ship End-to-End H-60 Ship Sustainment Value Chain **Wholesale** Supply (T-700 Engine Availability) Package/Preserve Troubleshoot Retail Ship War **Field** Supply Repair, I-level Reserve Remove **Field Test** Non-RFI **Trouble-**Repair shoot Retail Use/Break Install Test Supply **Planned Materiel Availably** 2500 Acft/5000 Firewalls Vs. **Actual Materiel Availability**

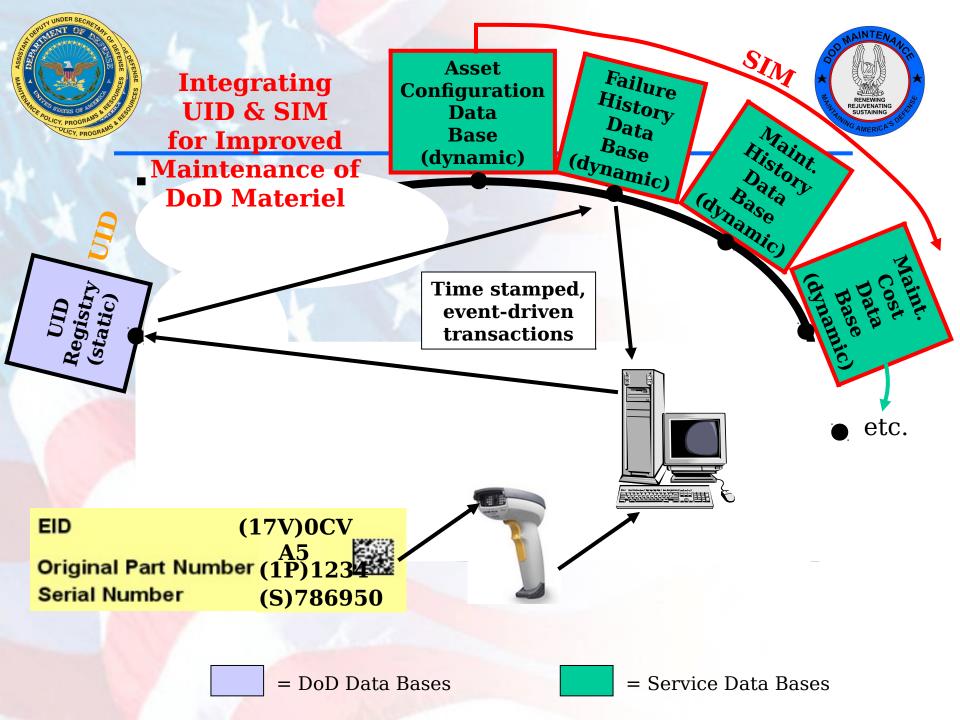


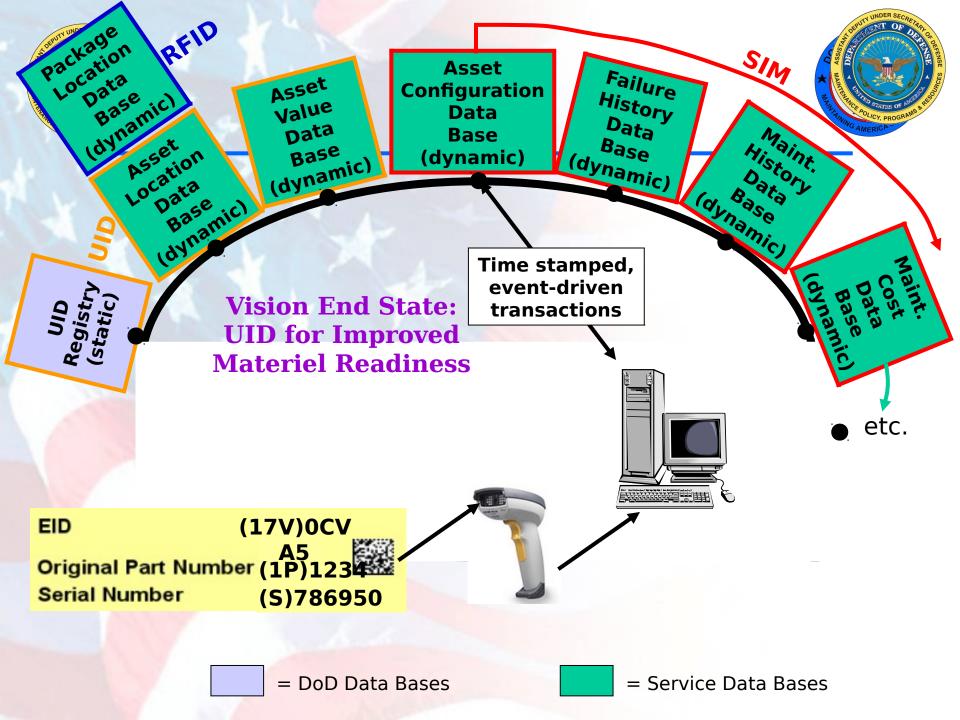


UID Objective: Informed Decision Making





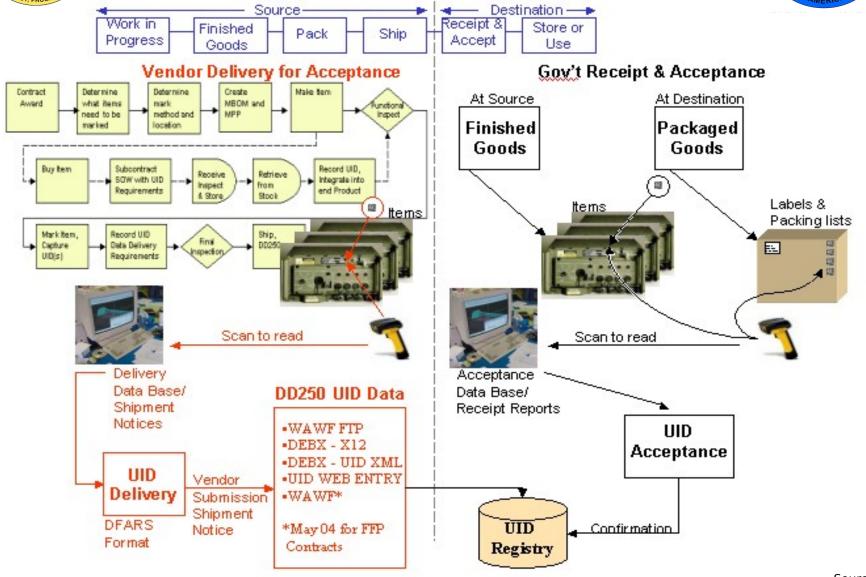






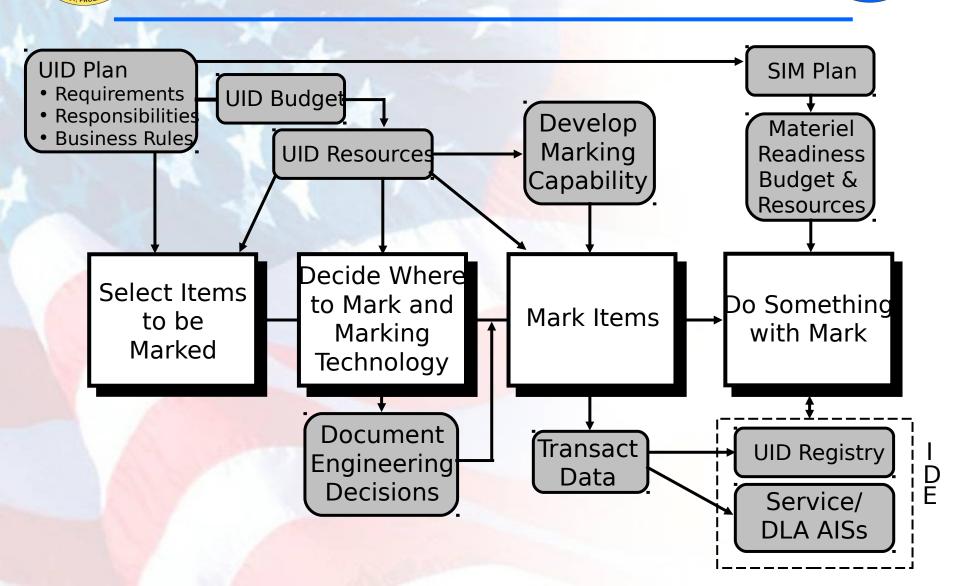
New Item UID Business Rules Are Relatively Mature





Source: DAU

Roles and Responsibilities - Shared Expectations are Important RELIVENATIONS





Business Rules for Legacy UID Need To Be Established



- Assign management responsibilities & delegate authority
- Identify which items need to be marked
- Plan and budget for UID marking capability
- Develop the capability to mark items
- Determine where and how to apply the UID mark
- Mark designated items
- Obtain UID data for each individual item marked
- Transact data to the UID Registry and other DSSs
- Do something with the mark (to generate an ROI)



Legacy Item Business Rules Shared Expectations Depot Community Recommendations



K	Assign management responsibilities & delegate authority	РМО
•	Identify which items need to be marked Plan and budget for UID marking capability	PMO/Depo
•	Develop the capability to mark items	Depot
	Determine where and how to apply the UID mark Mark designated items ———	Cog. TA Depot
·	Obtain UID data for each individual item marked	Depot Depot
	Transact data to the UID Registry and other DSSs Do something with the mark (to generate an ROI)	PMO/Depo t